<110> Heck,Gregory R.
Brown, Sherri M.
Liu, Jingdong

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gttcgagcac ttatgggtag tggacaggat agagcggctg ggcataggga ggcacttcac 120

aagtgaaatc aaggagtgcc tagaatacgt acacaggtac ttgggtgacc aaaggcttgc 180

cggcacgaag gaccgtccgg tctcaaaatg tcgatgacac ggccaatggg g 231

<210> 2
<211> 311
<212> DNA
<213> Zea mays

<400> 2

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cgggatctcc cgctacttcc agaaagagat tgagcagtgc atggactacg tgaacaggca 120

ctggactgag gacgggatct gctgggcgag gaactccgac gtgaaggagg tggacgacac 180

ggccatggct ttccgcctgc tacggctgca cggatacagc gtctcgccag atgtgttcaa 240

gaacttcgag aaggacgggg agttcttcgc cttcgtgggg cagtcgaacc aggcggtgac 300

ggggatgtac a 311

<210> 3
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<400> 3

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cacagcctac gctctcatgc agaccggcga cacgaaatgc ctcgagttcc tcgatggaat 120

cgtcagcaag tttagcgggg gagtgccctt tacctaccct gtggatctgt tcgagcactt 180

atgggtagtg gacaggatag agcggctggg catagggagg cacttcacag gtgaaatcaa 240

ggagtgccta gaatacgtac acaggtactg gggtgacgaa ggcttgcccg ccacgaggga 300

<210> 4
<211> 210
<212> DNA
<213> Zea mays

<400> 4

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caagagatga tgagccatgt cgatgacgaa ttgaagctgc gtatacgata gttcgttcag 120

tatcttctga gactcggtga gaagagaacc agcagcagcg agaccaggca gagctttctg 180

agcatcgtga aaagctgtta ctacgctgct 210

<210> 5
<211> 246
<212> DNA
<213> Zea mays

<400> 5

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ataaccttcc cccagctgct ggagatggca agagacttgg gtctcgacgt gccctgcgac 120

gagccatccc tgctagctat ctatgcaagg agagacgcaa agctcgcaag aatccctaaa 180

gaattactgc acgcttcacc gacaactctg cttctgagca tagagggaat gccgggctta 240

gactgg 246

<210> 6
<211> 286
<212> DNA
<213> Zea mays

<400> 6

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caggatgtct ctcgtcaaca acgagctcct cctccggaca gctcaagccg acttcagaag 120

tttccagaga caatgcaagc tcgagtggca tggcctcaga aaatgggcca gcaggagaaa 180

cctccaagca tacggcgtga cgtcgaacag cgcgctgcga tcctacttct tagccgcagc 240

cagcatcttt gagccagaca gagcgacaga gcgtctggga tgggct 286

<210> 7
<211> 470
<212> DNA
<213> Zea mays

<400> 7

agctgcgcac tacaccttta cacgcctgtc aacgactagc ggatcgagac acgcgtcaac 60

atgaactcat tggatgttgc aaaaggcaaa taaagaagaa aacaaatatc acaaatgcag 120

tggtatagaa ccacaataca tggttcatga taggcaaaca tacttacttt tagttcaggt 180

tattgagatt tgtgctggac gaattggtga ggctgtgtca atgataaaca acaaggataa 240

tgattggttt attcaactca catgtgccta cttgtacagt cttaaccata gggatttact 300

gtcccaggat actatgaaga attaagccag aattaaattg gatttaaaaa ggacatccaa 360

ttgaatatgc aagagcttgc tcaatctctc cttttgagat gtgatgagaa aactagcaat 420

aagaagacca agaaaacctt atgggatgtc ctaagaagtt tatactatgc 470

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<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (206),(221)
<223> unsure at all n locations

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acctggactg gccgaggctt ctgaacctcc agtcctgcga cggctccttc ttgttctctc 120

cttcggctac cgcttacgcg ctgatgcaaa ccggtgacaa gaagtgcttc gaatacatcg 180

acaggattgt caaaaaattc aacggnggag tccccaatgt ntatccggtc gatcttttcg 240

agcacatctg ggttgtggat cggttggagc gactcgggat ctcccgctac ttccaacgag 300

agattgagca gtgcatggac tatgtgaaca ggcactggac tgaagatggg atttgctggg 360

ctag 364

<210> 9
<211> 302
<212> DNA
<213> Zea mays

<400> 9

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caggatgtct ctcgtcaaca acgagctcct cctccggaca gctcaagccg acttcagaag 120

tttccagaga caatgcaagc tcgagtggca tggcctcaga aaatgggcca gcaggagaaa 180

cctccaagca tacggcgtga cgtctaacag cacgctgcga tcctacttct tagccgcagc 240

cagcatcttt gagccagaca gagcgacaga gcgtctgcga tgggctcgca cggcggtgct 300

cg 302

<210> 10
<211> 346
<212> DNA
<213> Glycine max

<400> 10

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tgggcaagaa attcaaatgt tcaagacatt gatgacacgg caatgggttt cagactatta 120

agattacacg gttaccaagt ttcagccgat gtgttcaaga actttgagag aaatggtgaa 180

tttttctgct ttacggggca gaccacacaa gcagtgacag gaatgtttaa tctgtatagg 240

gccacacaaa tcatgttccc gggagagaga attcttgagc acgggaagca cttctctgcc 300

aaatttttga aggagaagag agcagcaaat gagcttgtaa ataaat 346

<210> 11
<211> 348
<212> DNA
<213> Zea mays

<400> 11

acgacctgtt cgacaccggg gactccatgg aggagctgga gaatctcgtc acgctgttcg 60

acctgtggga cgcgcaccag gaggctggct tctactcgga gcgggtggag atcgtcttcc 120

gcgccgtcta cgacacgtgc aagcatctgg tgggcaaggc cgcggcggtg cagaaccgcg 180

gggtcatgga ccacatcgcc gacctttggg tggacgtcgt gagggccatg atgcccgagg 240

cggagtggag gatgagcggc cgggtgccgt ccatggagga gtacctgccg atcggggagg 300

tgtcgttcgc gatcggcccc atcgtcccca tggccgccta cctggttt 348

<210> 12
<211> 293
<212> DNA
<213> Zea mays

<400> 12

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gccgccatgg cttaccagag gaagaacggg tccttcttca actcgccggc cacaacggcc 120

gcagctgcca tccacaacgg ctacaacaag agagccatcg gttacttgga tgctctcatc 180

agcgagtctg gcagcagctc gtcagtaccg gctgtgtatc cacggaaggt gcacagccag 240

ctccgcatgg tggacacctt ggagaggatg gggatctctc gcagcttttc cta 293

<210> 13
<211> 230
<212> DNA
<213> Zea mays

<400> 13

acctgccatg tcatgtaagt ccagacatcc ttgccttggc tgttgaagat ttctgttctt 60

ctcaatccat ttaccaggac gaactacaga acatcattag ttgggagaca gagaatagga 120

tggaccagct acaatttgtg cggcaaaggc tggcatattg ctatctcgct gctgctacca 180

ccatatcccc tcacgaattg tctgatgctc gccttgcatg tgccaaaagc 230

<210> 14
<211> 286
<212> DNA
<213> Zea mays

<400> 14

atgacttctt cgatgttggt ggatcaaaag aagaacaaga aaatctcatc gaattagttg 60

agaactggga tgagcaccac aaagttgagt tctgttcgga gaaagtagaa atagttttct 120

atgctgtcta taatacagtg aaccagcttg gatctatggc ttctgcagta cagaagcgcg 180

atgtgacaaa acacctcgct gaatcatggc taaaagtatt gctgtgcatg ctgacggagg 240

cagactggca aaggaggcaa tttgtaccaa cagttgagga atacat 286

<210> 15

<211> 275
<212> DNA
<213> Zea mays

<400> 15

cttaatgttc ttattatgcc tgcgacgaat cttccacgac tgacgtcctg aatgctatct 60

gattcctttc ttccaacagc gtatgccgag aggcggttgg ttgcagaaaa cacaagcctg 120

ccaaacatgc ataaggaaga acttgagact ataataagga atcagctccg gaagccccag 180

ttgccacctt cttcatacga cacagcgtgg gtttctatgg tgccagtgcg gggctctcat 240

cagactcccc gcttcccaca gtgtgttgag tggat 275

<210> 16
<211> 269
<212> DNA
<213> Zea mays

<400> 16

gcaggatgat ggatcttggg gtgtcagcca atctgactca tcggtcagca aggatgttct 60

cctatccacg ttggcatgtg ttcttgcgtt gaagagatgg aatgttggca gagagaacat 120

ttggagagga ctgcatttca tcgggaggaa tttctctgtt gctatggacc agcagttcac 180

ttctcctata ggtttcaaca tcacctttcc tggtttgctt aacctcggca ttgatatggg 240

gttagaatta cctgtagaca aactgatgt 269

<210> 17
<211> 272
<212> DNA
<213> Zea mays

<400> 17

atatgggttt agaatttcct gtaagacaaa ctgatgtctg tggcattctt caccgccggg 60

agatggaatt gaaaaggctg gctgtggata gttcttttgg aagaaaagca tatatggctt 120

ttatcccaga aggattcgga aatatgctgg actgggatca agttatgaag tttcagagga 180

agactcgatc attgttcagc actccttcca caactgctgt tgcattaatc cacaaatata 240

acgaccaagc ccttcaatac ctaatttgct tg 272

<210> 18
<211> 271
<212> DNA
<213> Zea mays

<400> 18

tgtgtcctca caactgtggt tgatgacttc ttcgatgttg gtggatcaaa agaagaatta 60

gaaaacctga tagcactagt tgagaagtat gtctactctt ttatgaagta acactgatca 120

cttatgcatg gctaattaat ctcctgtttc tggctgatgg ttttcataga tggcatgcgc 180

accatgcatt gagttctatt cggaacaggt gaaaatagta ttttctgcta tttatacaac 240

agtgaaccat ctggagcatg gcttctgcag c 271

<210> 19
<211> 314
<212> DNA
<213> Zea mays

<400> 19

ggagaacaag ctggaccagc tacaatttgc tcggcagaaa ctgacatatt gctatctgtc 60

tgctgctgct accgtatttt cttctgaatt gtctgacgct cgcatttcat gggccaaaaa 120

tggtgtcctc acaactgtgg ttgatgactt cttcgatgtt ggtggatcaa aagaagaatt 180

agaaaacctg atagcactag ttgagaaatg gcatgcgcac catgcagttg agttctattc 240

ggaacaggtg aaaatagtat tttctgctat ttatacaaca gtgaaccatc ttggagcaat 300

ggcttctgca gcac 314

<210> 20
<211> 339
<212> DNA
<213> Zea mays

<400> 20

cggacggtgg gccggtgatg aacttcggca tcttgatagt tgggtgaagg agaacaagct 60

ggaccagcta caatttgctc ggcagaaact gacatattgc ctatctgtct gctgctgcta 120

ccgtattttc ttctgaattg tctgacgctc gcatttcatg ggccaaaaat ggtgtcctca 180

caactgtggt tgatgacttc ttcgatgttg gtggatcaaa agaagaatta gaaaacctga 240

tagcactagt tgagaaatgg catgcgcacc atgcagttga gttctattcg gaacaggtga 300

aaatagtatt ttctgctatt tatacaacag tgaaccatc 339

<210> 21
<211> 281
<212> DNA

<213> Zea mays

<400> 21

aaattattta ggctagtgag cacttgcggg aggctcctca atgactacca aagtttagag 60

agggaaggca accaggggaa gctgaatagt gtttctctac ttgtgctcca cagtggtggt 120

tctatgtcca tagaagccgc taaaaaggca atgcagaagt ccatagacgt gtctaggaga 180

gacttgctaa gattggttct caggaaagaa agtgctgttc ctaggccatg caaggagctc 240

ttctggaaga tgtgtaagat acttcactgt tttactctca g 281

<210> 22
<211> 426
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (411)
<223> unsure at all n locations

<400> 22

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gcaagacaca ccatacttgt ccagtcgata taccagtaga gatattctag ccttgggtat 120

cagagacttc aattcctctc aacttactta ccagcaagaa cttcaacatc ttgaaagttg 180

ggtgaaagaa tgcaggttgg accaactacc atttgtgcga caaaatttgg catacttctt 240

attgtccgct gctggctgca tgtactcccc tgaactgtct gaagctcgca ctttgtgtgc 300

aaaaaatggt gcgctcataa ctattgttga tgacttcttt gatgttggag gatcaaaaga 360

agaacttgaa aaccttgtca tgttggttga gctgtgggac gagcatcaca naattgagtt 420

ttactc 426

<210> 23
<211> 441
<212> DNA
<213> Zea mays

<400> 23

attcagcgga atgtttaccc ttgctgtttt tatgggtttg cagtttcctg ttggacaaac 60

taatattgat gggatacttc accttcggga gaacgaattg aaacgacatg ctggggagaa 120

atctacggca atagaagcat attgtgccta tgttgctgaa gggttcgaaa acctgctgga 180

ctggaatgat gttatgaagt tccaagcgaa gaatggatcc ttgtttaact ctccttctgc 240

aactgctgcc gctttggtcg ccaactatga cgacaaagcg ctacagtatc taaatttgct 300

tgtcacacaa tttggcagtg cagtaccaac agtgttccca caaaatattc actatcagct 360

ttcaatggtg gacacgctcg aaagtgttgg aatatcacgg catttttctg tggagaaaaa 420

ggctgtcctg gacatgatat a 441

<210> 24
<211> 258
<212> DNA
<213> Zea mays

<400> 24

ctagtgaaca tctcttacgt ctcgttccgt gaagcgacca aagacgtctt tgtgaatggc 60

tacctgatac cgaagggctg gaacgttcag ctgtggtaca gaagtgtgca catggatcct 120

gaagtttatc gtactccaaa gagtttaacc catcaagatg ggagggttat acaccgagag 180

ccggcacatt ccttcctttt ggacttggta ccagattctg ccctgggaac gatcttgcaa 240

agctggagat ctccgtct 258

<210> 25
<211> 263
<212> DNA
<213> Zea mays

<400> 25

ggacgcgtgg gggctacctg ataccgaagg ctggaacgtt cagctgtggt acagaagtgt 60

gcacatgagt cctgaagttt atcgtgactc caaagagttt aacccatcaa gatgggaggg 120

ttatacaccg agagccggca cattccttcc ttctggactt ggtaccagat tctgccctgg 180

gaacgatctt gcaaagctgg agatctccgt cttcctccac catttcctcc ttggttacaa 240

gctcacgagg acaaatccta act 263

<210> 26
<211> 358
<212> DNA
<213> Zea mays

<400> 26

atgcgcacga cgagccgtgt gatccaggag acgatgcggg tggcgtccat cctgtccttc 60

accttccggg aggccgtgga ggacgtggag taccaagggt acctgatccc caagggctgg 120

aaggtgatgc ccctgttccg gaacatccac cacagccccg accacttccc ctgcccggag 180

aagttcgacc cctcccgata cgagactgct cccaagccca acacgttcct gccgttcggc 240

aacgggaccc actcgtgccc gggcaacgag ctcgccaagc tggagatgct cgtgctcttc 300

caccacctcg ccaccaagta caggtggtcc actccaagtc cgagagcggc gtgcagtt 358

<210> 27
<211> 432
<212> DNA
<213> Zea mays

<400> 27

agcatcatca cgttcacgtt cagggaggcc gtggccgacg tggagtacaa agggttcctt 60

atccccaagg ggtggaaggt gatgcctctc ttcaggaaca tccaccacag ccctgactac 120

ttccaggatc cacacaagtt cgacccttct agattccagg tggcgccgcg tccgagcacg 180

ttcctgccgt ttgggcacgg cgtgcacgcg tgccccggga acgagctggc caagctcgag 240

atgctcgtcc tcatccacca cctggtcacc ggctacaggt gcgtccatct cctctcagat 300

cctctccata tattccccgc ttgtcctata gcttgtggac caggatgaca catggctggc 360

tgctgccgct ctccatgggg ctccggctct ctctctccgt gaatgctcca aatctcctcc 420

tgtctgtatg ta 432

<210> 28
<211> 286
<212> DNA
<213> Glycine max

<400> 28

agcagtactc tttgccacca ggtgacatgg gatggccctt cattggcaac atgtggtcct 60

ttctcagtgc tttcaagtcc aaggaccctg attccttcat ctcctccttt gtctccagat 120

ttggaagaac tggaatgtac aagaccatga tgtttggaaa tccaagtata attgtgacaa 180

cacctgaaat atgcaaaagg gtgcttacag atgacgataa attcacacct ggttggcctc 240

aatctactat agagctcatt ggaaagaggt catttatttc aatgtc 286

<210> 29
<211> 228
<212> DNA
<213> Glycine max

<400> 29

tgtgatgata atgatgatga tgatgtgttc catgtggatg tgggttgtcc ttgtggccat 60

tgctggtgcc cttttagtcc taagatctat cctcaagaat gtaaattggt ggctctatga 120

atccaaattg ggtgtgaagc agtactcttt gccaccaggt gacatgggat ggcccttcat 180

tggcaacatg tggtcctttc tcagtgcttt caagtccaag gaccctga 228

<210> 30
<211> 265
<212> DNA
<213> Glycine max

<400> 30

tacagctgcg agaagacgac agaagggggt gtgagttgag tctgtgatga taatgatgat 60

gatgatgtgt tccatgtgga tgtgggttgt ccttgtggcc attgctggtg ccctttttagt 120

cctaagatct atcctcaaga atgtaaattg gtggctctat gaatccaaat tgggtgtgaa 180

gcagtactct ttgccaccag gtgacatggg atggcccttc attggcaaca tgtggtcctt 240

tctcagtgct ttcaagtcca aggac 265

<210> 31
<211> 266
<212> DNA
<213> Glycine max

<400> 31

gtgatgataa tgatgatgat gatgtgttcc atgtggatgt gggttgtcct tgtggccatt 60

gctggtgccc ttttagtcct aagatctatc ctcaagaatg taaattggtg gctctatgaa 120

tccaaattgg gtgtgaagca gtactctttg ccaccaggtg acatgggatg gcccttcatt 180

ggcaacatgt ggtcctttct cagtgctttc aagtccaagg accctattcc ttcatctcct 240

cctttgtctc cagatttgga agaact 266

<210> 32
<211> 243
<212> DNA
<213> Glycine max

<400> 32

gttagagcca tgtgtattaa tattcccgga tttgcatacc acaaagcatt caaggcaagg 60

aaaaatctag tggccatatt tcaatctatt gtggatgaga gaagaaactt aaggaaggga 120

tatctgccag gaaaagccaa agatatgatg gatgctctga tagatgttga agatgatgat 180

ggaagaaagt tgagtgatga ggacatcatt gacattatgt tgatgtactt gaagtcgggc 240

cat 243

<210> 33
<211> 281
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (181)
<223> unsure at all n locations

<400> 33

tacggctgcg agaagacgac agaagggcac ttaatcatgg agttagagcc atgtgtatta 60

atattcccgg atttgcatac cacaaagcat tcaaggcaag gaaaaatcta gtggccatat 120

ttcaatctat tgtggacgag agaagaaact taaggaaggg ctatctgcct ggaaaagcca 180

nagatatgat ggatgctctg atagatcttg aagatgatga aagaaagttg agtgataagg 240

acatcattga catcatgttg atgtacttga atgcgggcca c 281

<210> 34
<211> 250
<212> DNA
<213> Glycine max

<400> 34

atccaaagga atttaaccct aatagatgga ataaagagca caaggctgga gaattccttc 60

cctttggagg aggaagtaga ttgtgtcctg ggaatgatct tgccaagatg gaaatagcag 120

tttttcttca ccatttcctt ctgaattacc gatttgaaca gcataatcct aattgccctg 180

tgagatactt gccacataca aggccaatgg acaattgctt gggaagggtc aggaaatgtc 240

catctacaac 250

<210> 35
<211> 394
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (375)

<223> unsure at all n locations

<400> 35

tacggatgcg agaagacgac agaaggggt gtgagttgag tctgtgatga taatgatgat 60

gatgatgtgt tccatgtgga tgtgggttgt ccttgtggcc attgctggtg ccctttttagt 120

cctaagatct atcctcaaga atgtaaattg gtggctctat gaatccaaat tgggtgtgaa 180

gcagtactct ttgccaccag gtgacatggg atggcccttc attggcaaca tgtggtcctt 240

tctcagtgct ttcaagtcca aggaccctga ttccttcatc tcctcctttg tctccagatt 300

tggaagaact ggaatgtaca agaccatgat gtttggaaat ccaagtataa ttgtgacaac 360

acctgaaata tgcanaaggg tgcttacaga tgac 394

<210> 36
<211> 389
<212> DNA
<213> Glycine max

<400> 36

gttagagcca tgtgtattaa tattcccgga tttgcatacc acaaagcatt caaggcaagg 60

aaaaatctag tggccatatt tcaatctatt gtggacgaga gaagaaactt aaggaagggc 120

tatctgcctg gaaaagccaa agatatgatg gatgctctga tagatcttga agatgatgaa 180

agaaagttga gtgacgagga catcattgac atcatgttga tgtacttgaa tgcgggccac 240

gagtcttcag gacatattac catgtgggca accttcttcc tgcaaaagca cccagaatat 300

ctccaaaagg ctaaggcaga acaagaagaa ataataagga gaaggccttc aacacagaaa 360

gggttgacac ttaaggaagt tcgggagat 389

<210> 37
<211> 349
<212> DNA
<213> Zea mays

<400> 37

ccaagaccgt ggcggtggcg ctggcgggga gcctgctggg ccacgacgag gcggcggcgt 60

tcccggcggg gtgcggcgag accacctgct acctgcggct gaatcggtac ccggcgtgcc 120

cgttcgcggc gaacaccttc gggctggtgc cccacacgga cagcgacttc ctgacggtgc 180

tgtcccagga ccaggtcggg ggcctgcagc tcatgacgga cgccggctgg gtggccgtca 240

agccccgccc cgacgcgctc atcgtcaaca tcggcgatct gtttcaggcc tggagcaaca 300

acctgtacaa gagcgtggag cacaaggtgg tggccaacgc cacggcgga 349

<210> 38
<211> 283
<212> DNA
<213> Zea mays

<400> 38

gcagctgcag agcagtgccg ggcgtccatc gtgcgcgccg cctccgagtg gggcttcttc 60

caggtgacca accaagccgt gccgcaggtt ctgctggacg agctgcacca ggcgcaggcc 120

ggcgtcttcc gccggccctt ccaactcaag gcgcaccagc cgctgctgga cttctcgccg 180

gagagctacc gctggggcac gcccaccgcc acgtgcctgg agcagctctc gtggtccgag 240

gcctaccaca tccccacaac gacgaccacg accggtaacg acg 283

<210> 39
<211> 377
<212> DNA
<213> Zea mays

<400> 39

ccaggatcta ccgggcttca gagaggcgct ggaggagtac gcgaaagcga tggaagagct 60

ggcggtcaag ctgctggagc tgatcgcccg gagcctgaag ctgaggcccg accggctgca 120

cggcttcttc aaggaccaga cgaccttcat ccggctgaac cactaccctc cttgcccgag 180

ccccgacctg gccctcggcg tggggcggca caaggacgcc ggcgccctga ccatcctgta 240

ccaggacgac gtcgggggggc tcgacgtccg gcggcgctcc gacggcgagt gggtccgcgt 300

caggcccgtg cccgactcgt tcatcatcaa cgtcggcgac ctcatccagg tgtggagcaa 360

cgacaggtac gagagcg 377

<210> 40
<211> 423
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (321),(400)
<223> unsure at all n locations

<400> 40

cccacgcgtc cggctgcgct gctgcctaca gctagagatg catcgatctc agttgcccgc 60

ctcctgtccg ccatggtggc ggcggcctcc cgcgatccac gacacgaagg cgtccatggt 120

gcccgcgtcc gaccggtagt gcttctgcgt gaactcgagg aactcgcgcc acgtgaagtc 180

cgggaacgcg cgcgggcggc ccgcctgctt gttctcctgg aggagcgcgc ccggcgggcg 240

gacgacgcgg tccagcggcg ggttgaggaa gaaggcgagc gaccggcggg cgccgtcgcc 300

gctcaccacg gcgcggtgca ngcagctggt gtgacgcccg tcggtgagcg cggcgaaggt 360

gtcgccgatg ttgaccacga acgcggtccc gcggggccgn accgggcgcc acggtccgcc 420

gcc 423

<210> 41
<211> 284
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (19)...(20),(22)...(23),(30)...(31),(33),(40),(47),(56),
(59),(61),(67),(70),(84),(105),(156),(159),(238),(283)
<223> unsure at all n locations

<400> 41

tagtaacaca agagtatann cnngagatgn ngnagctgtn ctaaaanatt tcaganctna 60

nagcttngan cttaggcctt gaancaaaga ggtttgaaga atttnctcat cacagaccaa 120

actagcttta ttcgactcaa ccactatcct ccatgnccnc atcctgacct tggtcttgga 180

cgtcggtcga cacaaggacc ctggtgcctt aaccattctt gcacaggatg aggttggngg 240

acttgaagtg agacgtaaag cagatcaaga gtggataaga gtnc 284

<210> 42
<211> 336
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (113)
<223> unsure at all n locations

<400> 42

ctttcatcct ctctctcgaa cttatttatc tctctctgtt tctctgtttt gctctgcttc 60

tcaaaacata acctttttatt attatagtat tttactatta taaactaatt ttncattgct 120

aatgcaatgg ccatagagtg cataacaaat atacaatcaa tgtctcaacc acaaaagcac 180

caccaagagc acaaagaaga tgaagcacca ttggtttttg atgcctcact tctcaggcac 240

caactcaacc taccaaaaca gttcatttgg cctgatgagg aaaagccatg catgaatgtg 300

cctgagcttg gtgtccctct cattgacttg gggggg 336

<210> 43
<211> 277
<212> DNA
<213> Glycine max

<400> 43

gtcgagggcc tccaagtctt tgttgatgga agatggtact ctgtcgctcc taaagaagat 60

gctttcgttg tcaatattgg cgacacattt atggctctat cgaatgggat gttcaagagt 120

tgcttgcata gagcagttgt aaacacaaaa ttgtgagaaa atcacttgct ttcttcctat 180

gtccaaatag agacaaagtg gtcacccctc caaaagatct aatcagctac gaaaattcaa 240

gaacataccc agatttcaca tggccaagcc ttcttga 277

<210> 44
<211> 242
<212> DNA
<213> Glycine max

<400> 44

acttgaagtg ctttctctca gcagatccac aagctttgtc aacagtttgt gctgaattga 60

gtgaggcatg caagaagcat ggcttcttcc ttgttgtcaa ccatggagtt gatagcaagc 120

tcatagctca agctcataag ctcatagatg atttcttctg catgcaactc tcacagaagc 180

agaaggctca gagaaagatt ggagaacatt gtggctatgc taatagcttc attggaagat 240

tc 242

<210> 45
<211> 257
<212> DNA
<213> Glycine max

<400> 45

ggatggacca acaccaaagt ctgagatcaa gccttgaatc ttttgcaaca agaatgttcc 60

cccttgctga aagcgtggca gaagtactag cctacaaatt gaatacgaaa tccaactatt 120

tccgtgaaaa ttgcttgcca aagagttcgt acattcgact gaatagatat cctccatgcc 180

ctatatcgtc aaaggtgcat ggcctgttgc ctcacagtga tacaagtttt cttaccatcg 240

tacatcagga ccaggtt 257

<210> 46
<211> 243
<212> DNA
<213> Glycine max

<400> 46

gtaatttggg agggtttacc aggactattg tgatgccatg agcaatcttt ctttggggat 60

aatggaactt ttgggaatga gtcttggagt tggtaaagca tgttttagag agtctttgaa 120

gagaataact caataatgag gctcaattac taccctcctt gtcaaaagcc tgacctcact 180

ttgggcactg gacctcactg tgacccaaca tctttgacca ttcttcacca agaccaagtg 240

gga 243

<210> 47
<211> 229
<212> DNA
<213> Glycine max

<400> 47

tgtggagcac aaggttgtgg caaataacaa aatggaaaga tactccatag catatttcct 60

atgtccttct tacagtactg tcataaacgg ctgcaaagga ccttctgttt ataggaagtt 120

cacgtttgga gaatacagac accaaattca agaagatgtc aagaaaatag gacacaaaat 180

tggactatcg aagtttctac tttaagatac atgcgcacat tgggataaa 229

<210> 48
<211> 263
<212> DNA
<213> Glycine max

<400> 48

atagagttta taacaaatat acaatcgatg tctcaaccac aaaagcacca ccaatagcac 60

attgaagatg aagcaccatt ggtttttgat gcctcacttc tcaggcacca actcaaccta 120

ccaaaacagt tcatttggcc tgatgaggaa aagccatgca tgaatgtgcc tgagcttggt 180

gtccctctca ttgacttggg ggggttcctc tctggtgacc ctgttgcaac aatggaggct 240

gcaaggatag ttggtgaggc atg 263

<210> 49
<211> 255
<212> DNA
<213> Glycine max

<400> 49

tacggctgcg agaagacgac agaggggacc ttcatggtat gttactatgt taattattct 60

tgactttcat tcatttgttt ttcttaccaa accaaaccaa acagtgagct tgaatttgga 120

ttcataatga tgattccagt gttgatgtaa aacatgtttt atttttttcg tattgattag 180

gctctttcga atgggagata caagagttgc ttgcataggg cagtggtgaa tagccagaca 240

acaagaaaat ctctt 255

<210> 50
<211> 235
<212> DNA
<213> Glycine max

<400> 50

gctgttggag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60

catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120

tctagctctt ggtgttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180

tgatgttgga ggacttgaag tcaaacgcaa agcagatcaa gagtggataa gagtg 235

<210> 51
<211> 246
<212> DNA
<213> Glycine max

<400> 51

gctgttggag attatagctc tgagcttagg ccttgaggca aagaggtttg aagagttttt 60

catcaaagat caaactagct ttattcgact caaccactat cctccatgcc cttcccctca 120

tctagctctt ggtgttggtc gacacaagga cattggagcc ttaaccattc ttgcacaaga 180

tgatgttgga ggacttgaag tcaaacgcaa agcagatcaa gatggataag agtgaaacct 240

acacca 246

<210> 52
<211> 272
<212> DNA
<213> Glycine max

<400> 52

gtgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60

tggggatgag cctaggagtt ggcagggaat gtttcagaga tttcttcgaa ggaaatgagt 120

cggttatgag gttgaattac tacccaccat gccaaaaacc tgagttagct ttaggaactg 180

gacctcattg tgaccctaca tccctaacca ttctccacca agatcaagtc gaggcctcca 240

agtctttgtt gatggaagat ggtactctgt cg 272

<210> 53
<211> 256
<212> DNA
<213> Glycine max

<400> 53

ctgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60

tggggatgag cctaggagtt ggcagggaat gtttcagaga tttcttcgaa ggcaatgagt 120

cggttatgag gttgaattac tacccaccat gccaaaaacc tgagttagct ttaggaactg 180

gacctcattg tgaccctaca tccctaaaca ttctacacca agatcaagtc agggcctcca 240

aatctttgtt gatgga 256

<210> 54
<211> 142
<212> DNA
<213> Glycine max

<400> 54

gtgtgttcca agaatactgt gaagccatga gcaaactctc tcttgggata atggagcttc 60

tggggatgag cctaggagtt ggcagggaat gtttcagaga tttcttcgaa ggaaatgagt 120

cggttatgag gttgaattac ta 142

<210> 55
<211> 235
<212> DNA
<213> Glycine max

<400> 55

cccaaagacc cactaatagt aacaattatg ctccaaagac caattcctct caaattggtc 60

atcataagaa caataccacc aacagcaaca tcccagtgat tgacatgaag cacatctacg 120

gtggtgacga gggaaagagg gctgagacgc tccggctcgt gtcggaggcg tgccaagaat 180

ggggtttttt ccaggtggtg aaccatggag tgagccatga gttgatgaag ggggc 235

<210> 56
<211> 240
<212> DNA
<213> Glycine max

<400> 56

aacatgatga tcgagtcaat caatggacta atcaatcacc tcaataccct ccactcttca 60

gggttgtaac acaagagtat attcaggaga tggaaaagct gtcctttaag ctttggagct 120

tatagctttg agcttaggcc ttgaagcaaa gaggtttgag gaatttttca tcaaagatca 180

aactagcttt attcgactca accactatcc tccatgccct taccctgacc ttgctcttgg 240

<210> 57
<211> 403
<212> DNA
<213> Glycine max

<400> 57

ctcacttctg atgaacatga tgatagactc actcagttga ctaatcaatc tcctgaatac 60

cctccaaatt tcagggttat aatacaagag tatattcaag agatggaaaa gctgtgcttt 120

aagctgttgg agcttatagc tttgagctta ggcattgaag cgaataggtt tgaagaattt 180

ttcatcaaaa accaaactag ctctattcga ctcaaccact atcctccttg cccttaccct 240

ggccttgctc ttggagttgg tcgacacaag gaccctggtg ccttgaccat tcttgcacag 300

gatgaggttg gaggacttga agtgaaacgt aaagctgatc aagagtggat aggagtgaaa 360

cccaccctag atgcttatat tatcaacgtt ggtgatatta ttc 403

<210> 58
<211> 70
<212> DNA
<213> Zea mays

<220>
<221> unsure
<222> (8),(18),(27),(36)...(37),(51),(60),(66)
<223> unsure at all n locations

<400> 58

aaaaaaanaa aaaaaatnaa aaataanaat ataaannata aaaaaaataa naaaaaaaan 60

aaaaanaaac 70

<210> 59
<211> 262
<212> DNA
<213> Glycine max

<400> 59

ggtgcgaatc acaacactgc acaaggatta gggtttacat ttgggaggta gcacgagagc 60

agtaggtgaa gcgtgcattc tcaacagttg atctctctcc tttcctgaga gaggatgacg 120

atggataacc gagagccata gatgcaatca cccaagtctg gtctgcatat ggcagcttcc 180

atattgtgaa ccatggagta tcccttgatt tgggtaaaga ggccatgcag ctatctaaga 240

ccttgtttag attactcgga tg 262

<210> 60
<211> 273
<212> DNA
<213> Glycine max

<400> 60

gtgcgaacca caacactgca caaagattag ggtttacatt tgggaggaag caagaaagag 60

atgggtgagg cgtgcattcc aacagttgat ctctctcctt tcctgagaga ggatgaagat 120

ggaaaaaaga gagccataga agcaatcacc caagcctgtt ctgaatatgg cttcttccaa 180

attgtgaacc atggagtttc cctgatttgg ttaaagaggc catgcagcaa tctaagacct 240

tttttgatta ctctgatgaa gaaaagagca aga 273

<210> 61
<211> 276
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (2)
<223> unsure at all n locations

<400> 61

gntcacactg attacggttt attgacatta cttaatcaag atgacgatgt aaacgcactt 60

caggtgagaa acctgtctgg tgaatggata acagcacctc cagttcctgg gacatttgta 120

tgcaacattg gtgacatgct aaagatttac tccaatggtt tgtacgagtc cactttgcat 180

cgggtgataa acaacaactc aaaatataga gtcagtgtag tatactttta tgagacaaac 240

ttcgatactg cagtagagcc attggacaca cataaa 276

<210> 62
<211> 353
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (213),(215),(333),(342),(346),(352)
<223> unsure at all n locations

<400> 62

ccacccttct cacaatcctt taccaaaaca acataagcgg gttgcaggtt caccgaaaag 60

gcgtcgggtg ggtgacggtg ccaccactct ccggcggact tgtgatcaat gtaggcgacc 120

tcctccacat attgtcgaac gggttgtacc gagtgtgctc caccgggtct tagtgaaccg 180

gatcagcgaa ggctttcagt tgcgtattta tgncngcccc tccaaatgtg gagatatgtc 240

cacatgcgaa ttagtgggcc caaataagcc tccccttttat aaggcagtga cttggatgag 300

taccttggga caaagcaaag catttaacaa gcntctcact gntcgntttg tnc 353

<210> 63
<211> 256
<212> DNA
<213> Glycine max

<400> 63

acaagcaccc tgacttaaac tccctacaag aactccccga gtcttacact tggacacacc 60

atagccatga tgatcatact cctgcagctt ccaacgagag tgtccccgtt attgatctca 120

acgacccaaa tgcttcaaag ttgatacacc atgcatgcat aacttgggga gcgtaccaag 180

tggtgaacca tgccataccc atgagcctcc tccaagacat tcaatgggtt ggggagacat 240

cttctctctc ccttga 256

<210> 64
<211> 273
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (4),(7)...(9),(14)...(16),(19),(24),(29),(38)...(39),
(48),(61),(68),(94),(127)...(128),(131),(133),(250),
(252),(271)

<223> unsure at all n locations

<400> 64

gttncannnc atgnnnggnc cgcnaatana acatgcanna gggaaggntc gaagcaattg 60

ngtgaggntg ggttaaatca aacgaaccgc tacncagcta gctaggtgca caaagccgaa 120

cggttgnnag ngnctgttga aatgcttgct ttagtgccaa ggtactcatt ccaagtcact 180

gccttacaaa ggggaggctt atttgggccc actagcttcg catgtggaca tatctccaca 240

ttcggagggn cnctacataa atacgcactg naa 273

<210> 65
<211> 263
<212> DNA
<213> Glycine max

<400> 65

ctagtgaaag ttctctagca aaagtcatgg gagaggtaga cccagctttc atccaagacc 60

cacaacacag gccaaagttc tctaccatac aacctgaagc gttcctgtga tagatctctc 120

tccaataacc aaccacacac tttcagattc atcttccatt gaaaacttag tgcaggagat 180

agggagtgca tgcaaggagt ggggtttctt ccaagtaaca aaccatgggg tgcccctcac 240

tctaagacaa aacattgaga tag 263

<210> 66
<211> 248
<212> DNA
<213> Glycine max

<400> 66

cttttcttca gcccatagct tacctgattc tcacgcatgg tctcactctc aacccaacga 60

tgatgattat gtctcattca atgatgatgc atcatcatca tcattcatac ccatcataga 120

cctcatggat ccaaatgcca tggaacaaat aggccatgca tgtgagaaat ggggtgcttt 180

ccaattgaag aaccatggca taccctttg tgttattgaa gatgtagaag aagaggctaa 240

aaggctct 248

<210> 67
<211> 260
<212> DNA
<213> Glycine max

<220>

<221> unsure
<222> (58)...(60)
<223> unsure at all n locations

<400> 67

ttgagcacac cagcacacct taaacgtaag tggtatttgt tccacacagg tacactannn 60

ccttcactct cagaagccta ccgagcccac cccgtgcacg ttcaacacaa gcaccctgac 120

ttaaactccc tacaagaact ccccgagtct tacacttgga cacaccatag ccatgatgat 180

catactcctg cagcttccaa cgagagtgtc cccgttattg atctcaacga cccaaatgct 240

tcaaagttga tacaccatgc 260

<210> 68
<211> 274
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (29)
<223> unsure at all n locations

<400> 68

aacatagagt cctaccctcc ggttctccnc cacctagacc agcagcaacc cccaccaaac 60

cctgacccgg attataaaga cccgacccaa gaagatccgg atactatacc catcatagat 120

ctctcatgct tagaccatga cacaacaagt tggaggaagc ttgcaaggat tggggtttgt 180

ttcgtttggt caaccatggg gttccattga ccctttgaa tgagcttcaa gagctggcca 240

aagaactctt ctctttgtcc tttgaggtga aaga 274

<210> 69
<211> 262
<212> DNA
<213> Glycine max

<400> 69

gaaaaagcta gcagcgaagt taatgtgcct tatgttggct tcccttggta ttcccaagga 60

agacattcaa atgggagggc cgaaaggaga attcaacggg gcttgtgcgg ctttgcattg 120

gaattcttac ccgagttgcc cggatccgga tcgggccatg ggtctggccg cgcacacgga 180

ctccactctc ctcacaatcc tgcaccaaaa caatgtcaat gggcttcagg ttctcaagga 240

aggggaaggg tgggtggcgg tg 262

<210> 70
<211> 267
<212> DNA
<213> Glycine max

<400> 70

cacgacttca actcacttca agaactccct gactcttacg cttggacaca acctgatgat 60

gatgatcacc gtctcacaaa ttacccttcc aacaataaga ctaagaccgt tgtccccatc 120

atcgatttga acgacccaaa tgctccaaac ctcataggcc atgcatgcaa aacatggggt 180

gtgttccaag tggtgaacca tggcatcccc acgagcctct tcagtgacat tcagagggct 240

agtcttgctc tattctccct tcctctt 267

<210> 71
<211> 253
<212> DNA
<213> Glycine max

<400> 71

ctcgttcccc tgacggtgct gatggctatg gccttgctcg catctcttcc ttcttcccca 60

aactcatgtg gtctgaggga ttcacaattg ttggatcccc tcttgagcat tttcgtcaac 120

tctggcccca agattaccac aaatactgtg atcccgtcaa gcgctatgat gaagccatga 180

aaaagctagt gggaaagctg atgtggctga tgttggattc tctgggtatt acaaaggaag 240

acctgaaatg ggc 253

<210> 72
<211> 250
<212> DNA
<213> Glycine max

<400> 72

aatttccatg cggtactatg ttttctttgc aagtactagc acaaacagct agctactatt 60

tttgaacttg tcataattag tctctaattc taattagcca tacattgaac acaccagcac 120

accttaaacg taagtggtat ttgttccaca caggtacact attccttcac tctcagaagc 180

ctaccgagcc caccccgtgc acgttcaaca caagcaccct gacttaaact ccctacaaga 240

actccccgag 250

<210> 73
<211> 256

<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (152)
<223> unsure at all n locations

<400> 73

aagccatgaa aaagctagtg ggaaagctga tgtggctgat gttggattct ctgggtatta 60

caaaggaaga cctgaaatgg gccgggtcca aaggccaatt caaaaagaca tgcgcagcct 120

tgcaattgaa ctcttacccg acttgtccgg anccggatcg ggccatgggt ctggccgccc 180

acaccgactc cacccttctc acaatccttt accaaaacaa cataagcggg ttgcaggttc 240

accgaaaagg cggcgg 256

<210> 74
<211> 253
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (128),(130),(212),(216),(238),(240),(244)...(245),
(248)...(249)
<223> unsure at all n locations

<400> 74

gcgatatgat gaagccatga aaaagctagt gggaaagctg atgtggctga tgttggattc 60

tctgggtatt acaaaggaag acctgaaatg ggccgggtcc aaaggccaat tcaaaaagac 120

atgcgcancn tgcaattgaa ctcttacccg acttgtccgg atccggatcg ggccatgggt 180

ctggccgccc acaccgaact ccaccctctc anaatnttta ccaaaacaaa atgggggngn 240

tgcnngtnna cgg 253

<210> 75
<211> 245
<212> DNA
<213> Zea mays

<400> 75

aagaccatgg cattccgcgg aggaaggagg gcctgtgcgg gaagcatcca ggcagtgaac 60

atcgcgtgca cagccatcgc gaggtccgtg caagagtttg cgtggacgct caaggaaggc 120

gacgaggaca aggacgacac catccagctt acaaccaaca ggctttaccc gttgcatgtg 180

tacctcacac ctagaggaag gaaatgagca tcacatttat ttggtctctg gtctgtgagc 240

atatg 245

<210> 76
<211> 149
<212> DNA
<213> Zea mays

<400> 76

cggctcgagc aggaatacct ttatcaagaa atccaaaaag tctgcggcaa taagacagtt 60

accgaggatc acctgccaga gttaccgtac ttgaacgcgg tgttccatga gaccatgagg 120

cggcattctc cagttccatt agtgcctcc 149

<210> 77
<211> 263
<212> DNA
<213> Zea mays

<400> 77

aaaggttata tcaaaggagg aaatctacaa ggccactgtg gttgacatga tgatgtgtgc 60

aattgaggtc gactggaggg atttcttccc gtacctcagc tggattccaa ataggacctt 120

cgaaacaaga gtactgacta ccgaagcgag gagaactacc gtgatgcaag ccttgatcaa 180

gcagcaaaag gaaagaattg cacgtgggga gactaggata tcctacctgg acttcctgct 240

ggcagagaat acactgactg atg 263

<210> 78
<211> 288
<212> DNA
<213> Zea mays

<400> 78

aggcattgtc agcgctcacc cgtgacaaaa ctatggttgc tacaagtgac tatggtgact 60

tccacaaaat gattaagcgt tatatcatga cattcatgtt gggtacttct ggccagaaac 120

aatttaggga cacaagaaac atgatggttg acaacatgtt gaacactttc catacattgt 180

tgatggatga tccaaattct cctctgaact tccgggaagt tttcaagaat gaattatttc 240

gcttatccct ggttcaggct ttaggcgagg atgtgagttc aatctatg 288

<210> 79

<211> 263
<212> DNA
<213> Zea mays

<400> 79

ctccagttcc gctggtgcct ccaagacttg tccatgagag taccaacttg gctggctacg 60

aagttccagc cgggacacag atgatcataa atctgtacgg atgcaacatg aacaagagcg 120

actgggacgc gcccgacgaa tggaggccag agaggtatct ggacgggagc ttcgaagtcg 180

ctgataagta caagaccatg gcattcggcg gaggaaggac ggactgtgcg ggaagcatcc 240

aggcagtgaa catcgcgtgc aca 263

<210> 80
<211> 263
<212> DNA
<213> Glycine max

<400> 80

atcttcattc catcagaagt tagatgttat ggagtccctc acccttttcag gtactgtagc 60

cgtagtggct ttttctatcc tcttgttcct cctgctactc actataagac atgcgggagt 120

cggagccgga ttcggagccg gatcacttcc cccagtacca gcggttccag gattaccagt 180

gatagggaat cttctgcaat tgaaggagaa gaaaccttac aagaccttca cacatatgac 240

tccttgacat gggctcatct att 263

<210> 81
<211> 276
<212> DNA
<213> Glycine max

<400> 81

acagcatggc ttcagcgaaa ggacagtaaa cttgctattc atgactacct ggtatcggaa 60

gctaaagcac tgactggcga tcaaatttcc atgctaatct gggatagcat tattgagaca 120

tctgatacta cattagttac tactgaatgg gctatgtatg aacttgctaa agacaaaact 180

cgtcaggacc gtcttcatga ggagctccaa tatgtatgtg gacatgaaaa tgttatcgtt 240

gaccaattat ctaagctacc atacttgggg gcagta 276

<210> 82
<211> 245
<212> DNA
<213> Glycine max

<400> 82

ttgagatccg aggggagtgt tccggtgagg gaatgcgaac gaggcttatg ctggtcacgt 60

ggctggatga atgagcagaa gaacagaatg gcttcaggaa aggaagtaaa ttgttatttt 120

gactacctgg tatcggaagc taaagaactg actgaagatc aaatttccat gctaatctgg 180

gagaccatta ttgagacatc tgatactaca ttagttacaa ctgaatgggc tatgtatgaa 240

cttgc 245

<210> 83
<211> 230
<212> DNA
<213> Glycine max

<400> 83

cacagattcg agatgcatgc tatggagttc ctcacccttt cagttactgt ggccgcagct 60

gctttttcta tcctcttctt cttcctgcga catgcgggag ccggagcagg atcactcccc 120

ccagtaccag ctgttccagg attaccagtg attgggaatc tgctccaatt gaaggagaag 180

aaaccttaca agaccttcac ccagatggct cacaaacatg ggcccatcta 230

<210> 84
<211> 245
<212> DNA
<213> Glycine max

<220>
<221> unsure
<222> (236)
<223> unsure at all n locations

<400> 84

acagattcga gatgcatgct atggagttcc tcacctttc agttactgtg gccgcagctg 60

ctttttctat cctcttcttc ttcctgcgac atgcgggagc cggagcagga tcactccccc 120

cagtaccagc tgttccagga ttaccagtga ttgggaatct gctccaattg aaggagaaga 180

aaccttacaa gacttcaccc agatggctca caaacatggg cccatctatt ccatcngaac 240

cggtg 245